## CLAIMS:

- A system for decoupling a capacitive path from an
   pad and a protected component, comprising:
  - a protected component;
- an IO pad coupled to the protected component;
  - a source of current to the IO pad;
  - a first circuit which ceases to conduct after being exposed to a current;
- a second circuit able to cause the first circuit to

  10 cease conducting in response to variations in voltage or

  current; and
  - a capacitive path that is decoupled from the IO pad and protected component when the first circuit ceases to conduct.

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- 2. The system of Claim 1, wherein the protected component comprises a processor.
- 3. The system of Claim 1, wherein the first circuit 20 comprises a fuse.
  - 4. The system of Claim 1, wherein the second circuit comprises a fuse blow pad.
- 5. The system of Claim 1, wherein:

the second circuit comprises a control signal input; and

the second circuit shorts to ground upon receipt of a control signal.

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6. The system of Claim 1, wherein the second circuit comprises a field-effect transistor.

- 7. The system of Claim 1, wherein the capacitive path comprises:
  - a node coupled to the first circuit;
- a first diode, the anode of which is coupled to the node; and
  - a second diode, the cathode of which is coupled to the node.
- 8. The system of Claim 7, wherein the voltage coupled to the cathode of the first diode is a voltage other than a ground voltage.
  - 9. The system of Claim 7, wherein the voltage coupled to the anode of the second diode is a ground voltage.
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- 10. The system of Claim 7, wherein:
- a first voltage is coupled to the IO pad;
- a second voltage is coupled to the second circuit; and the difference between the first voltage and the second voltage is less than the activation voltage of the first
- diode or the second diode.
  - 11. The System of Claim 7, wherein:
  - the second circuit has a control signal input;
- 25 the second circuit shorts to ground upon receipt of a control signal;
  - a voltage is coupled to the IO pad; and
- the difference between the voltage coupled to the IO pad and the ground voltage is less than the activation voltage of the first diode or the second diode.

- 12. The system of Claim 11, wherein a plurality of fuse blow control devices are connected to the same fuse blow control signal input.
- 5 13. A system for decoupling a capacitive path from an IO pad and a protected component comprising:
  - a protected component;
  - an IO pad coupled to the protected component;
  - a source of current to the IO pad;
- a first circuit which ceases to conduct when exposed to a current;
  - a second circuit which ceases to conduct when exposed to a current;
- a third circuit able to cause the first circuit to 15 cease conducting in response to variations in voltage;
  - a fourth circuit able to cause the second circuit to cease conducting in response to variations in voltage; and
  - a capacitive path that is decoupled from the IO pad and protected component when the first and second circuits cease conducting.
    - 14. The System of Claim 13, wherein the capacitive path comprises a diode pair, further comprising:
      - a first node;

- a first diode, the anode of which is coupled to the first node:
  - a second diode, the cathode of which is coupled to the first node;
- a second node coupled to the cathode of the first 30 diode; and
  - a third node coupled to the anode of the second diode.

- 15. The System of Claim 13, wherein the third circuit comprises a fuse blow pad.
- 16. The System of Claim 13, wherein the fourth circuit comprises a fuse blow pad.
  - 17. The System of Claim 13, wherein the first circuit comprises a fuse.
- 10 18. The System of Claim 13, wherein the second circuit comprises a fuse.
  - 19. The System of Claim 13, wherein a voltage is coupled to the third circuit.

- 20. The System of Claim 13, wherein the voltage coupled to the fourth circuit is a voltage other than ground.
- 20 21. The System of Claim 13, wherein a voltage is coupled to the first circuit.
  - 22. The System of Claim 13, wherein the voltage coupled to the second circuit is ground.

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- 23. The system of Claim 13, wherein:
- a first voltage is coupled to first circuit;
- a second voltage is coupled to the second circuit;
- a third voltage is coupled to the third circuit;
- 30 a fourth voltage is coupled to the fourth circuit;
  - the difference of the first voltage and the third voltage causes the first circuit to cease conducting; and

the difference of the second voltage and the fourth voltage causes the second circuit to cease conducting.

- 24. The system of Claim 13, further comprising:
- 5 a plurality of capacitive paths, IO pads, and protected elements, in which:
  - a capacitive path is coupled to an IO pad and protected element;

each capacitive path is coupled to the first circuit;

10 each capacitive path is coupled to the second circuit;

each capacitive path is coupled to the third circuit;

and

each capacitive path is coupled to the fourth circuit.

15 25. The system of Claim 24, in which:

a capacitive path comprises a diode pair;

the first node of a diode pair is coupled to an IO pad and a processor;

the second node of each diode pair is coupled to the 20 first circuit;

the second node of each diode pair is coupled to the third circuit;

the third node of each diode pair is coupled to the second circuit; and

- 25 the third node of each diode pair is coupled to the fourth circuit.
  - 26. A method for decoupling a capacitive path from an IO pad and a protected component, comprising:
- applying a first voltage to an IO pad of a protected component;

generating a current between the IO pad and a control device; and

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separating the IO pad and protected component from a capacitive path as a function of the current between the IO pad and the control device.

5 27. A computer program product for decoupling a capacitive path from an IO pad and a protected component, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for applying a first voltage to an IO pad 10 of a protected component;

computer code for generating a current between the IO pad and a control device; and

computer code for separating the IO pad from a capacitive path as a function of the current between the IO pad and the control device.

28. A processor product for decoupling a capacitive path from an IO pad and a protected component, the product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for applying a first voltage to an IO pad of a protected component;

computer code for generating a current between the IO pad and a control device; and

- computer code for separating the IO pad from a capacitive path as a function of the current between the IO pad and the control device.
- 29. The system of Claim 3, wherein the fuse is blown 30 by a laser.

30. The system of Claim 13, wherein the first circuit has ceased to conduct due to a signal generated by the third circuit, but the second circuit has not ceased to conduct.